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| 10/786,224 | 02/26/2004 | Burkhard Kuhls | 080437.53236US | 2832 |
| 23911 CROWELL & I | 7590 05/13/200 MORING LLP | EXAMINER | | |
| INTELLECTU | AL PROPERTY GRO | JOHNSON, CARLTON | | |
| P.O. BOX 14300 WASHINGTON, DC 20044-4300 | | | ART UNIT | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| Office Action Summary | | Application No. | | Applicant(s) | | | | |
|--|--|--|--|--|-------------|--|--|--|
| | | 10/786,224 | | KUHLS, BURKHARD | | | | |
| | | Examiner | | Art Unit | | | | |
| | | CARLTON V. JOH | NSON | 2136 | | | | |
| The MAILING DATE of this operiod for Reply | ommunication app | ears on the cover s | heet with the co | orrespondence ac | ddress | | | |
| A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If NO period for reply is specified above, the m - Failure to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR | THE MAILING DA provisions of 37 CFR 1.13 this communication. aximum statutory period w d for reply will, by statute, e months after the mailing | ATE OF THIS CON 36(a). In no event, however, vill apply and will expire SI cause the application to b | MMUNICATION er, may a reply be time X (6) MONTHS from to become ABANDONED | lely filed he mailing date of this coorsists (35 U.S.C. § 133). | | | | |
| Status | | | | | | | | |
| 1) Responsive to communication | on(s) filed on <i>20 Fe</i> | ebruary 2008 | | | | | | |
| 2a) ☐ This action is FINAL . | | action is non-final. | | | | | | |
| 3)☐ Since this application is in co | <i>7</i> — | | | secution as to the | e merits is | | | |
| , | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)⊠ Claim(s) <u>1-20</u> is/are pending | in the application. | | | | | | | |
| 4a) Of the above claim(s) | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) Claim(s) is/are allowe | | | | | | | | |
| 6)⊠ Claim(s) <u>1-20</u> is/are rejected | | | | | | | | |
| 7) Claim(s) is/are object | | | | | | | | |
| 8) Claim(s) are subject to | | r election requirem | ent. | | | | | |
| Application Papers | | | | | | | | |
| 9)☐ The specification is objected | to by the Examine | r. | | | | | | |
| · · · · · · · · · · · · · · · · · · · | 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | |
| | - | · · · · · · · · · · · · · · · · · · · | - | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing F 3) ☑ Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date | | 5) N | nterview Summary (aper No(s)/Mail Dat otice of Informal Pa ther: | te | | | | |

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DETAILED ACTION

In view of the Pre-Appeal Conference Request filed on 2/20/2008, PROSECUTION
 IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

2. This action is responding to application papers filed on 2-26-2004. Claims **1 - 20** are pending. Claims **1, 7, 19** are independent.

Response to Arguments

3. Applicant's arguments filed 2/20/2008 have been fully considered but they are moot due to new grounds of rejection.

Specification

4. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction

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of the following is required: Claims 17, 18 are objected as "computer program product" is not defined clearly in the specification, so that the meaning of the term in the claims is not ascertainable by reference to the specification.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim **20** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no disclosure of "a third public key and a third signature" within the specification or the original claims as amended in claim 20. This will be interpreted as a public key and a signature. Appropriate correction required.

Claim Rejections – 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1 20 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Wong et al. (US Patent No. 5,957,985) in view of England et al. (US Patent No. 6,330,670).

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Regarding Claim 1, Wong discloses:

a method comprising providing software for use by a control unit of a vehicle, (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8; col. 7, lines 35-39: software for vehicle control unit) Wong does not specifically disclose signing the software against falsification, using a secret or private key of a software signature site, and checking the signed software for integrity.

However, England discloses:

- a) before its use by the control unit, signing the software against falsification (see England col. 8, lines 34-37: boot block signed by OS manufacturer; col. 11, lines 47-51: boot block and all loaded components signed by a trusted source and provided with a certificate; sign boot code), using a secret or private key of a software signature site (see England col. 8, line 66 col. 9, line 2: software developer or manufacturer signs software), according to a public-key method; (see England col. 7, line 63 col. 8, line 14: public key of manufacturer for CPU (control entity)) and
- b) checking the signed software for integrity, using a public key complementary to the secret key of the software signature site. (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised)

It would have been obvious to one of ordinary skill in the art to modify Wong to sign the software against falsification and check the signed software for integrity using a private key as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61: "... Therefore, there is a need in the art for a digital rights management operating system that protects the rights of the content provider ... without requiring additional hardware directed at securing downloaded content. ... ")

England discloses that the boot code is signed (see England col. 8, lines 34-37; col. 11, lines 47-51: signed boot code). And, England discloses a signed digital certificate from the manufacturer of the control unit (CPU) and OS software (see England col. 11, lines 47-51: boot block and all loaded components signed by a trusted source and provided with a certificate). This is equivalent to the specification on page 6, paragraph [0021], lines 3-6, which discloses that the software signature certificate is the generated and signed by the manufacturer of the software.

England discloses a digital certificate containing an identification number for a control entity (see England col. 8, lines 26-28; col. 9, lines 4-10: software identity; identify of an authenticated OS). This is equivalent to the specification on page 3, paragraph [0010] and paragraph [0012], which discloses that the clearing code certificate contains an identifier and the capability to restrict usage to a particular control entity.

England discloses a trust center or a trusted third party for certificate signing. (see England col. 8, line 66 - col.9, line 3: trusted third party) This is equivalent to the specification on page 6, paragraph [0022], which discloses a trust center or trusted third party that generates certificates.

Regarding Claim 2, Wong discloses the method according to claim 1. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: vehicle control unit) Wong does not specifically disclose generating a software signature certificate, using the public key of the software signature site and a secret key of a control entity. However, England discloses wherein generating a software signature certificate using the public key of the software signature site and a secret key of a control entity of a trust center, according to a public-key method. (see England col. 7, line 63 - col. 8, line 14: signed manufacturer certificate; usage of public/private key pair; key pair placed onto CPU (control entity); certificate contains manufacturer's public key;)

It would have been obvious to one of ordinary skill in the art to modify Wong generate a software signature certificate using the public key and a secret key of a control entity of a trust center as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 3, Wong discloses the method according to claim 1. (see Wong col.

2, lines 21-29; col. 4, line 64 - col. 5, line 8: vehicle control unit) Wong does not specifically disclose a control entity certificate and a trust center certificate is generated according to a public-key method by using the secret key of the control entity. However, England discloses wherein one of a control entity certificate and a trust center certificate is generated according to a public-key method by using the secret key of the control entity. (see England col. 7, line 63 - col. 8, line 14: manufacturer (CPU, control entity) certificate generated; manufacturer public/private key pair usage)

It would have been obvious to one of ordinary skill in the art to modify Wong for a control entity certificate and a trust center certificate to be generated according to a public-key method as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 4, Wong discloses the method according to claim 1. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: vehicle control unit) Wong does not specifically disclose clearing code data are signed using a secret key of a clearing code site according to a public key method. However, England discloses wherein clearing code data are signed using a secret key of a clearing code site according to a public key method. (see England col. 8, lines 26-37; col. 9, lines 4-10: software identify (clearing code site identifier); uniquely determines OS identity signed by manufacturer; col. 8, lines 7-12: public/private key pair usage)

It would have been obvious to one of ordinary skill in the art to modify Wong for clearing code data to be signed using a secret key of a clearing code site as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 5, Wong discloses the method according to claim 2. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose a clearing code site signature certificate is generated using the secret key of the control entity of the trust center according to a public-key method. However, England discloses wherein a clearing code site signature certificate is generated using the secret key of the control entity of the trust center according to a public-key method. (see England col. 8, lines 26-37; col. 9, lines 4-10: software identify (clearing code site identifier); uniquely determines OS identity signed by manufacturer; col. 8, lines 7-12: public/private key pair usage)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

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Regarding Claim 6, Wong discloses the method according to claim 3. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the trust center certificate is protected against falsification and exchange, in a protected memory area in the control unit. However, England discloses wherein the trust center certificate is protected against falsification and exchange, in a protected memory area in the control unit. (see England col. 8, lines 26-28; col. 9, lines 4-10: internal software identity register; col. 8, line 66 - col. 9, line 3: trusted third party to digitally sign all components)

It would have been obvious to one of ordinary skill in the art to modify Wong the trust center certificate is protected against falsification and exchange, in a protected memory area as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 7, Wong discloses a method of providing software for use by a control unit of a vehicle, said method comprising:

a control unit of a vehicle. (see Wong col. 2, lines 21-29; col. 7, lines 32-38; col. 4, line 64 - col. 5, line 8: control unit for vehicle, control unit, boot image) Wong does not specifically disclose the clearing code site signature certificate, the software signature certificate, the clearing code data and their signature as well as the

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software and its signature are stored in the control unit.

However, England discloses:

- a) before its use by the control unit, signing the software against falsification (see England col. 8, lines 34-37: boot block signed by OS manufacturer; col. 11, lines 47-51: boot block and all loaded components signed by a trusted source and provided with a certificate; sign boot code), using a secret or private key of a software signature site (see England col. 8, line 66 - col. 9, line 2: software developer or manufacturer signs software), according to a public-key method; (see England col. 7, line 63 - col. 8, line 14: public key of manufacturer for CPU (control entity)) and
- b) checking the signed software for integrity, using a public key complementary to the secret key of the software signature site, (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised)
- c) wherein a clearing code site signature certificate, a software signature certificate, the clearing code data and their signature as well as the software and its signature are stored in the control unit. (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with a pair of public and private keys that is unique to CPU; certificate contains public key)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been

motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 8, Wong discloses the method according to claim 2. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose software signature certificate includes at least one validity restriction. However, England discloses wherein the software signature certificate includes at least one validity restriction. (see England col. 8, lines 26-28; col. 9, lines 4-10: internal software identity register (validity restriction); col. 8, line 66 - col. 9, line 3: trusted third party to digitally sign all components)

It would have been obvious to one of ordinary skill in the art to modify Wong that the software signature certificate includes at least one validity restriction as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 9, Wong discloses the method according to claim 5. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the clearing code site signature certificate includes at least one validity restriction, a restriction to a particular control unit which is designated by means

of an identification number stored in the control unit in an invariable manner, and a restriction to a vehicle identification number of a particular vehicle. However, England discloses wherein the clearing code site signature certificate includes at least one validity restriction, a restriction to a particular control unit which is designated by means of an identification number stored in the control unit in an invariable manner, and a restriction to a vehicle identification number of a particular vehicle. (see England col. 8, lines 26-28; col. 9, lines 4-10: internal software identity register (validity restriction); uniquely determines the OS; col. 8, line 66 - col. 9, line 3: trusted third party to digitally sign all components)

It would have been obvious to one of ordinary skill in the art to modify Wong for restriction to a particular control unit designated by an identification number as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 10, Wong discloses the method according to claim 2. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the software signature certificate is checked for integrity according to a public-key method, using a public key of the trust center. However, England discloses wherein the software signature certificate is checked for integrity according to a public-key method, using a public key of the trust center. (see England col. 8, line 66

- col. 9, lines 3: all components digitally signed by a trusted third party; col. 8, lines 7-12: public/private usage for manufacturer)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 11, Wong discloses the method according to claim 2. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the signed software is checked for integrity according to a public key method, using the public key of the software signature site contained in the software signature certificate. However, England discloses wherein the signed software is checked for integrity according to a public key method, using the public key of the software signature site contained in the software signature certificate. (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised; col. 8, lines 7-12: public/private key pair usage; checked for validity)

It would have been obvious to one of ordinary skill in the art to modify Wong for checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to

protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 12, Wong discloses the method according to claim 5. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the clearing code site signature certificate is checked for integrity according to a public key method, using a public key of the trust center. However, England discloses wherein the clearing code site signature certificate is checked for integrity according to a public key method, using a public key of the trust center. (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised; col. 8, lines 7-12: public/private key pair usage; checked for validity)

It would have been obvious to one of ordinary skill in the art to modify Wong to check for integrity according to a public key method, using a public key of the trust center as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 13, Wong discloses the method according to claim 4. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8: control unit for vehicle) Wong does not specifically disclose the signed clearing code data are checked for integrity according to

a public key method, using a public key of the clearing code site contained in the clearing code site signature certificate. However, England discloses wherein the signed clearing code data are checked for integrity according to a public key method, using a public key of the clearing code site contained in the clearing code site signature certificate. (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised; col. 8, lines 7-12: public/private key pair usage; checked for validity)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 14, Wong discloses the method according to claim 1, wherein the control unit is equipped with a sequence-controlled microprocessor that implements one of the above-described methods. (see Wong col. 2, lines 21-29: vehicle processor (microprocessor))

Regarding Claim 15, Wong discloses a control unit for a motor vehicle, which implements a method according to claim 1. (see Wong col. 2, lines 21-29; col. 4, line 64 - col. 5, line 8; col. 7, lines 35-39; control unit, vehicle)

Regarding Claim 16, Wong discloses a data processing system for a motor vehicle, which implements a method according to claim 1. (see Wong col. 4, line 64 - col. 5, line 8; col. 7, lines 35-39: computer, data processing system)

Regarding Claim 17, Wong discloses a computer program product sequence control of a data processing system of a motor vehicle or motorcycle, which implements the method according to claim 1. (see Wong col. 4, line 64 - col. 5, line 8; col. 7, lines 35-39; computer, data processing system, vehicle)

Regarding Claim 18, Wong discloses a data carrier, comprising a computer program product according to claim 17. (see Wong col. 4, line 64 - col. 5, line 8; col. 7, lines 35-39: software (computer program product) implementation means)

Regarding Claim 19, Wong discloses a method of providing software for use by a control unit of a vehicle, said method comprising:

the control unit (see Wong col. 7, lines 32-38: control unit, vehicle)

Wong does not specifically disclose whereby storing certificates, receiving signed software, checking signed software.

However, England discloses:

a) storing, a software signature certificate; receiving, signed software; (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with

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a pair of public and private keys that is unique to CPU)

b) checking, whether the software signature certificate has been changed or manipulated; (see England col. 11, lines 54-59: checks signature of a component before loading it; if signature valid then component has not been compromised)

 c) checking, whether the signed software has been changed or manipulated. (see England col. 11, lines 54-59: checks signature of a component before loading it;
 if signature valid then component has not been compromised)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Regarding Claim 20, Wong discloses the method of claim 19, further comprising:

the control unit (see Wong col. 7, lines 32-38: control unit, vehicle)

Wong does not specifically disclose whereby storing certificates and keys associated with certificates.

However, England discloses:

a) storing, a trust center certificate that includes a public key and a signature generated using a secret key of a trust center; (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with a pair of public

and private keys that is unique to CPU) and

b) storing, a clearing code site signature certificate that includes a second public key and a second signature, (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with a pair of public and private keys that is unique to CPU)

c) wherein the software signature certificate includes a third public key and a third signature. (see England col. 7, lines 50-54: storage of keys, certificates; manufacture equips the CPU with a pair of public and private keys that is unique to CPU)

It would have been obvious to one of ordinary skill in the art to modify Wong for signing the software against falsification, and checking the signed software for integrity as taught by England. One of ordinary skill in the art would have been motivated to employ the teachings of England in order to protect the rights of the content provider without requiring additional hardware directed at securing downloaded content. (see England col. 3, lines 57-61)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton V. Johnson whose telephone number is 571-270-1032. The examiner can normally be reached on Monday thru Friday, 8:00 -5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Carlton V. Johnson Examiner Art Unit 2136

CVJ April 28, 2008

/Brandon S Hoffman/ Primary Examiner, Art Unit 2136